# BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads & drains at byatarayanapura from backside of shivaji bar to beside road of titan showroom in ward no.07 Byataranapura

Measurements

**Estimate cost: 25.00 lakhs**

Ward 7 byatarayanapura

BRUHAT BANGALORE MAHANAGARA PALIKE
KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency

Sri.Vishnu M.Gowda

Name of work: Improvements to roads & drains at byatarayanapura from backside of shivaji bar to beside road of titan showroom in ward no.07 Byataranapura.

Work order Amount:-1877230.00

| Sl NO | Description of work | ch | No | L | B | D | QTY | |
|---|---|---|---|---|---|---|---|---|
| 1 | Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. | | | | | | | |
| | Infront of temple | cum | | | | | | |
| | | 0-10 | 1 | 10 | 4 | 0.25 | 10.00 | |
| | | | | | | | **10.00** | |
| | Road next to doddamma temple | | | | | | | |
| | | 0-12 | 1 | 12.00 | 7.35 | 0.25 | 22.05 | |
| | | 12-33.5 | 1 | 21.50 | 5.30 | 0.25 | 28.49 | |
| | | 33.5-48.5 | 1 | 15.00 | 4.40 | 0.25 | 16.50 | |
| | | 48.5-63.5 | 1 | 15.00 | 3.70 | 0.25 | 13.88 | |
| | | 63.5-78.5 | 1 | 15.00 | 3.30 | 0.25 | 12.38 | |
| | | 78.5-93.5 | 1 | 15.00 | 2.20 | 0.25 | 8.25 | |
| | | 93.5-105.50 | 1 | 12.00 | 2.85 | 0.25 | 8.55 | |
| | | | | | | | **110.09** | |
| | Shabri nagara road patch work | | | | | | | |
| | | 0-30 | 1 | 30.0 | 2.5 | 0.2 | 15.00 | |
| | | 30-60 | 1 | 30.0 | 2.5 | 0.2 | 15.00 | |
| | | 60-108 | 1 | 45.0 | 2.5 | 0.3 | 33.75 | |
| | | | | | | | **63.75** | |
| | | | | | | cum | **183.84** | |

NDP Dt(wa) 04/8/2020

Assistant Executive Engineer
Kodigehalli Sub Divi
Ward 7

(Contractor)

Assistant Engineer



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara P
Bangalore - 560 092

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 2 | **Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications..** | | | | | | |
| | Infront of temple | cum | | | | | |
| | | 0-10 | 1 | 10 | 4 | 0.2 | 8.00 |
| | | | | | | | 8.00 |
| | Road next to doddamma temple | | | | | | |
| | | 0-12 | 1 | 12 | 7.35 | 0.2 | 17.64 |
| | | 12-33.5 | 1 | 21.5 | 5.3 | 0.2 | 22.79 |
| | | 33.5-48.5 | 1 | 15 | 4.4 | 0.2 | 13.20 |
| | | 48.5-63.5 | 1 | 15 | 3.7 | 0.2 | 11.10 |
| | | 63.5-78.5 | 1 | 15 | 3.3 | 0.2 | 9.90 |
| | | 78.5-93.5 | 1 | 15 | 2.2 | 0.2 | 6.60 |
| | | 93.5-105.50 | 1 | 12 | 2.85 | 0.2 | 6.84 |
| | Shabri nagara road patch work | | | | | | 88.07 |
| | | 0-30 | 1 | 30 | 2.5 | 0.2 | 15.00 |
| | | 30-60 | 1 | 30 | 2.5 | 0.2 | 15.00 |
| | | 60-108 | 1 | 45 | 2.5 | 0.2 | 22.50 |
| | | | | | | | 52.50 |
| | 6th main road | | | | | | |
| | | 0-30 | 2 | 30 | 0.95 | 0.75 | 42.75 |
| | | 30-60 | 2 | 30 | 0.95 | 0.75 | 42.75 |
| | | 60-80 | 2 | 20 | 0.95 | 0.75 | 28.50 |
| | | | | | | | 114.00 |
| | | | | | | cum | 262.57 |
| | | | | | | Qty Ltd to | 262.00 |

NDP
DE(W1)
19/8/2020

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Z... B.B.M.P.,
Bangalore.

(Contractor)

Assistant Engineer



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara...
Bangalore - 560 092

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 3 | **Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications** | | | | | | | |
| | **Infront of temple** | **cum** | | | | | | |
| | | 0-10 | 1 | 10 | 4 | 0.15 | 6.00 | |
| | | | | | | | **6.00** | |
| | **Road next to doddamma temple** | | | | | | | |
| | | 0-12 | 1 | 12 | 7.35 | 0.15 | 13.23 | |
| | | 12-33.5 | 1 | 21.5 | 5.3 | 0.15 | 17.09 | |
| | | 33.5-48.5 | 1 | 15 | 4.4 | 0.15 | 9.90 | |
| | | 48.5-63.5 | 1 | 15 | 3.7 | 0.15 | 8.33 | |
| | | 63.5-78.5 | 1 | 15 | 3.3 | 0.15 | 7.43 | |
| | | 78.5-93.5 | 1 | 15 | 2.2 | 0.15 | 4.95 | |
| | | 93.5-105.50 | 1 | 12 | 2.85 | 0.15 | 5.13 | |
| | | | | | | | **66.05** | |
| | **Shabri nagara road patch work** | | | | | | | |
| | | 0-30 | 1 | 30 | 2.5 | 0.15 | 11.25 | |
| | | 30-60 | 1 | 30 | 2.5 | 0.15 | 11.25 | |
| | | 60-108 | 1 | 45 | 2.5 | 0.15 | 16.88 | |
| | | | | | | | **39.38** | |
| | **6th main road** | | | | | | | |
| | | 0-30 | 2 | 30 | 0.95 | 0.15 | 8.55 | |
| | | 30-60 | 2 | 30 | 0.95 | 0.15 | 8.55 | |
| | | 60-80 | 2 | 20 | 0.95 | 0.15 | 5.70 | |
| | | | | | | | **22.80** | |
| | | | | | | **cum** | **134.23** | |
| | | | | | | **Qty Ltd to** | 133.80 | |

Assistant Executive Engineer, Kodigehalli Sub Division,

Assistant Executive Engineer

(Contractor)

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 6 | **Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications** | | | | | | | |
| | | tonne | | L | no of rods | le of u bar | Total length | |
| | **LHS** | | two sides | | | | **10mm** | 8mm |
| | Main rod | 0-30 | 2 | 30 | 335 | 1.75 | 1172.5 | |
| | distribution | | 2 | 30 | 7 | 30 | | 420 |
| | | | | | | | | |
| | Main rod | 30-60 | 2 | 30 | 335 | 1.75 | 1172.5 | |
| | distribution | | 2 | 30 | 7 | 30 | | 420 |
| | | | | | | | | |
| | Main rod | 60-80 | 2 | 20 | 220 | 1.75 | 770 | |
| | distribution | | 2 | 20 | 7 | 20 | | 280 |
| | | | | | | | **3115** | **1120** |
| | | | | | | | 0.62 kg/cum | 0.39kg/cum |
| | | | | | | | 1931.3 | 436.8 |
| | | | | | tonne | | **2368.1** | **2.18** |

2.36

Assistant Executive Engineer
Kodigehalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore

NPP
AE(KH)
31/8/2020

(Contractor)

Assistant Engineer



Assistant Executive Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 5 | Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge | | | | | | | |
| | 6th main road | sqm | | | | | | |
| | | 0-30 | 8 | 30 | | 0.45 | 108.00 | |
| | | 30-60 | 8 | 30 | | 0.45 | 108.00 | |
| | | 60-80 | 8 | 20 | | 0.45 | 72.00 | |
| | | | | | | | 288.00 | |
| | | | | | | sqm | 288.00 | |
| 4 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. | | | | | | | |
| | 6th main road | | | | | | | |
| | Bottom | 0-30 | 2 | 30 | 0.75 | 0.15 | 6.75 | |
| | | 30-60 | 2 | 30 | 0.75 | 0.15 | 6.75 | |
| | | 60-80 | 2 | 20 | 0.75 | 0.15 | 4.50 | |
| | | | | | | | 18.00 | |
| | Side wall | | 4 | 30 | 0.15 | 0.45 | 8.10 | |
| | | | 4 | 30 | 0.15 | 0.45 | 8.10 | |
| | | | 4 | 20 | 0.15 | 0.45 | 5.40 | |
| | | | | | | | 21.60 | |
| | | | | | | cum | 39.60 | |
| 7 | Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications | | | | | | | |
| | | 0-30 | 98 | 0.6 | 0.75 | | 44.10 | |
| | | 30-60 | 97 | 0.6 | 0.75 | | 43.65 | |
| | | 60-80 | 67 | 0.6 | 0.75 | | 30.15 | |
| | | | | | | sqm | 117.90 | |

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore



Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8 | Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum | | | | | | | |
| | Infront of temple | cum | | | | | | |
| | | 0-10 | 1 | 10 | 4 | 0.1 | 4.00 | |
| | | | | | | | 4.00 | |
| | Road next to doddamma temple | | | | | | | |
| | | 0-12 | 1 | 12 | 7.35 | 0.1 | 8.82 | |
| | | 12-33.5 | 1 | 21.5 | 5.3 | 0.1 | 11.40 | |
| | | 33.5-48.5 | 1 | 15 | 4.4 | 0.1 | 6.60 | |
| | | 48.5-63.5 | 1 | 15 | 3.7 | 0.1 | 5.55 | |
| | | 63.5-78.5 | 1 | 15 | 3.3 | 0.1 | 4.95 | |
| | | 78.5-93.5 | 1 | 15 | 2.2 | 0.1 | 3.30 | |
| | | 93.5-105.50 | 1 | 12 | 2.85 | 0.1 | 3.42 | |
| | | | | | | | 44.04 | |
| | Shabri nagara road patch work | | | | | | | |
| | | 0-30 | 1 | 30 | 2.5 | 0.1 | 7.50 | |
| | | 30-60 | 1 | 30 | 2.5 | 0.1 | 7.50 | |
| | | 60-108 | 1 | 45 | 2.5 | 0.1 | 11.25 | |
| | | | | | | | 26.25 | |
| | | | | | | cum | 74.29 | |
| | | | | | | Qty Ltd to | 74 | |

HDD
DE(WT)
27/10/2020

(Contractor)

Assistant Engineer



Assistant Executive Engineer
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mananagara Palik
Bangalore - 560 092

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 9 | **Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.** | | | | | | |
| | **Infront of temple** | **sqm** | | | | | |
| | | 0-10 | 1 | 10 | 4 | 40.00 | |
| | | | | | | **40.00** | |
| | **Road next to doddamma temple** | | | | | | |
| | | 0-12 | 1 | 12 | 7.35 | 88.20 | |
| | | 12-33.5 | 1 | 21.5 | 5.3 | 113.95 | |
| | | 33.5-48.5 | 1 | 15 | 4.4 | 66.00 | |
| | | 48.5-63.5 | 1 | 15 | 3.7 | 55.50 | |
| | | 63.5-78.5 | 1 | 15 | 3.3 | 49.50 | |
| | | 78.5-93.5 | 1 | 15 | 2.2 | 33.00 | |
| | | 93.5-105.50 | 1 | 12 | 2.85 | 34.20 | |
| | | | | | | **440.35** | |
| | **Shabri nagara road patch work** | | | | | | |
| | | 0-30 | 1 | 30 | 2.5 | 75.00 | |
| | | 30-60 | 1 | 30 | 2.5 | 75.00 | |
| | | 60-108 | 1 | 45 | 2.5 | 112.50 | |
| | | | | | | **262.50** | |
| | | | | | sqm | **742.85** | |
| | | | | | **Qty Ltd to** | **740** | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 10 | Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH item No. 182 | | | | | | |
| | | | | | **cum** | **446.41** | |

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Executive Engineer
Byatarayanapura Division

(Contractor)